

Figure 1 I/O ENGINE

### Figure 2 Senso-Actuator Connections

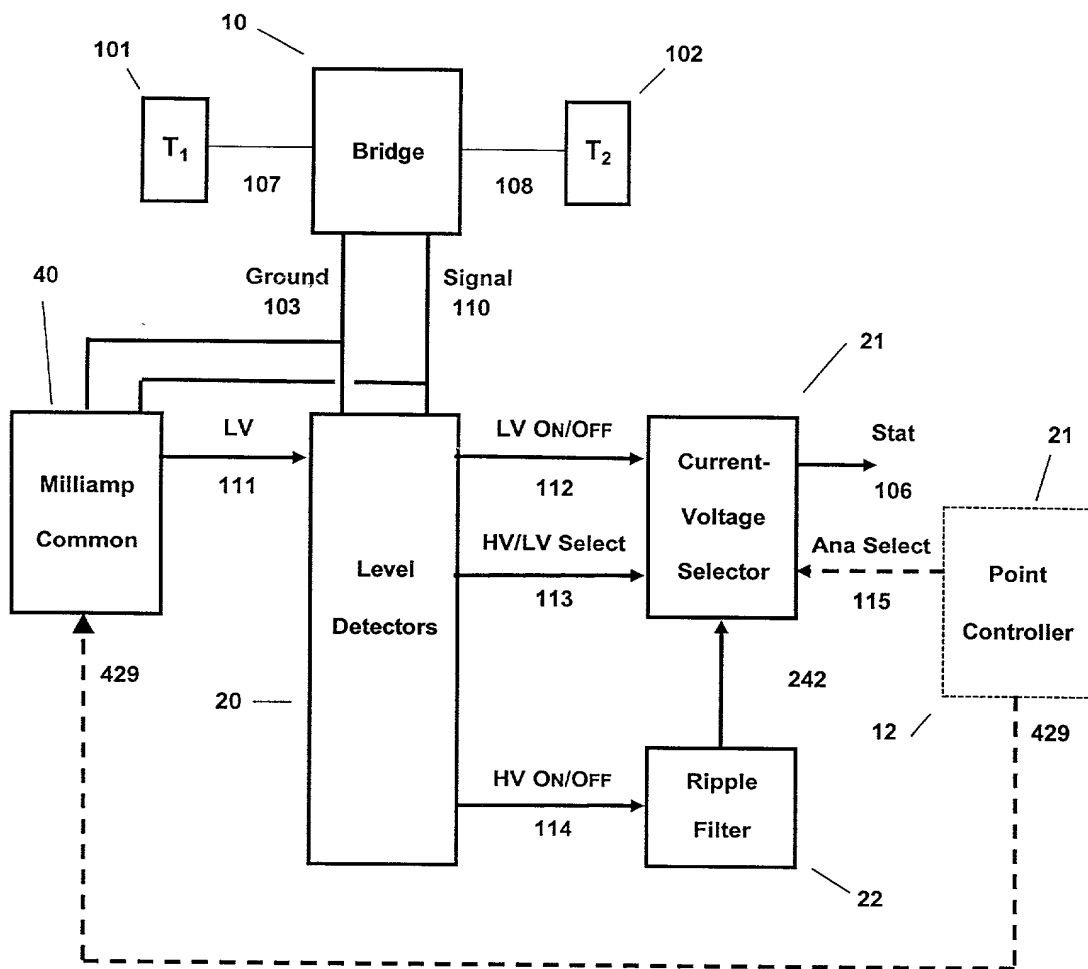


Figure 3 Mode 1 Digital (ON/OFF) Input

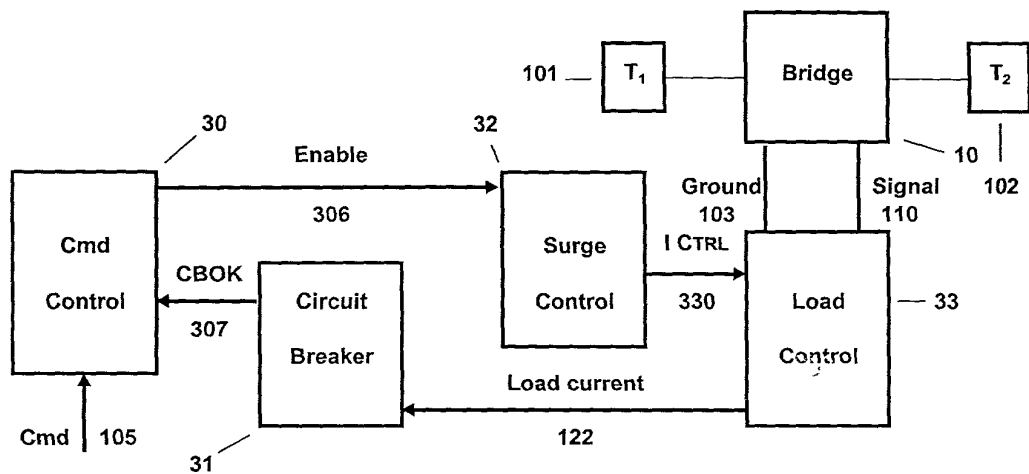


Figure 4 Mode 2 Digital (ON/OFF) Output

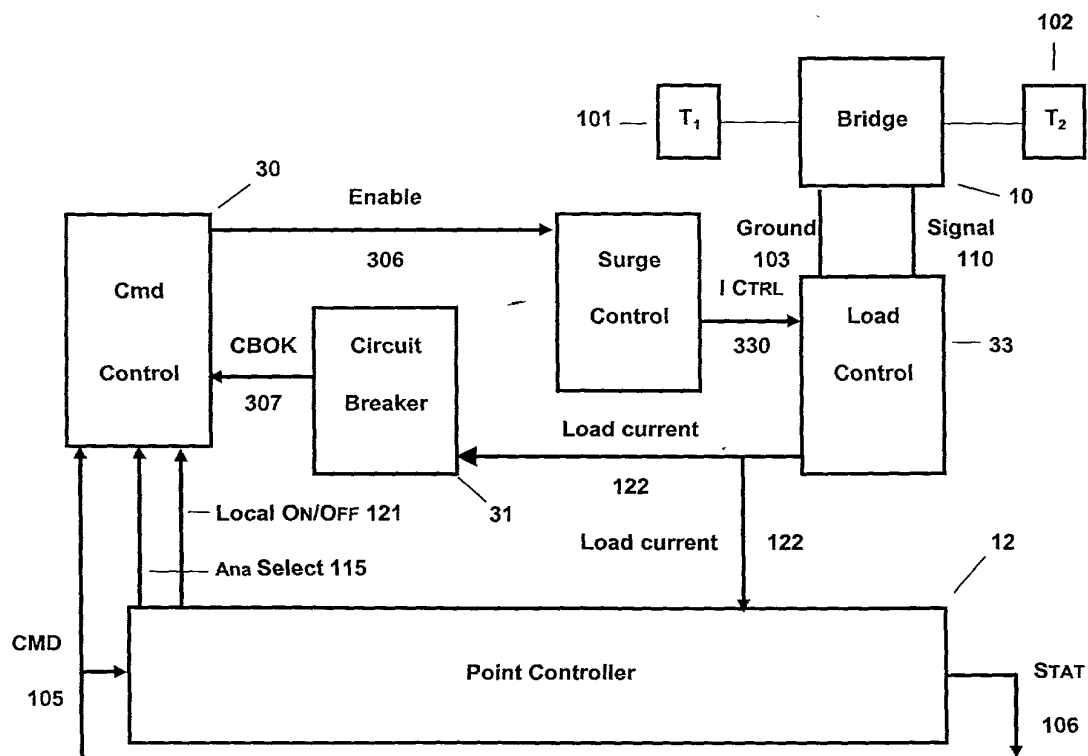


Figure 5 Mode 3 Digital Output & Load Current

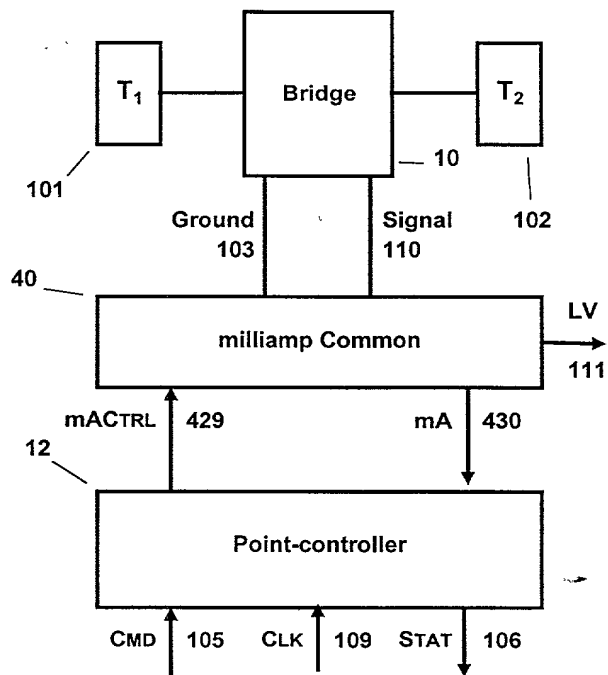


Figure 6. Modes 4 & 5 mA Functions

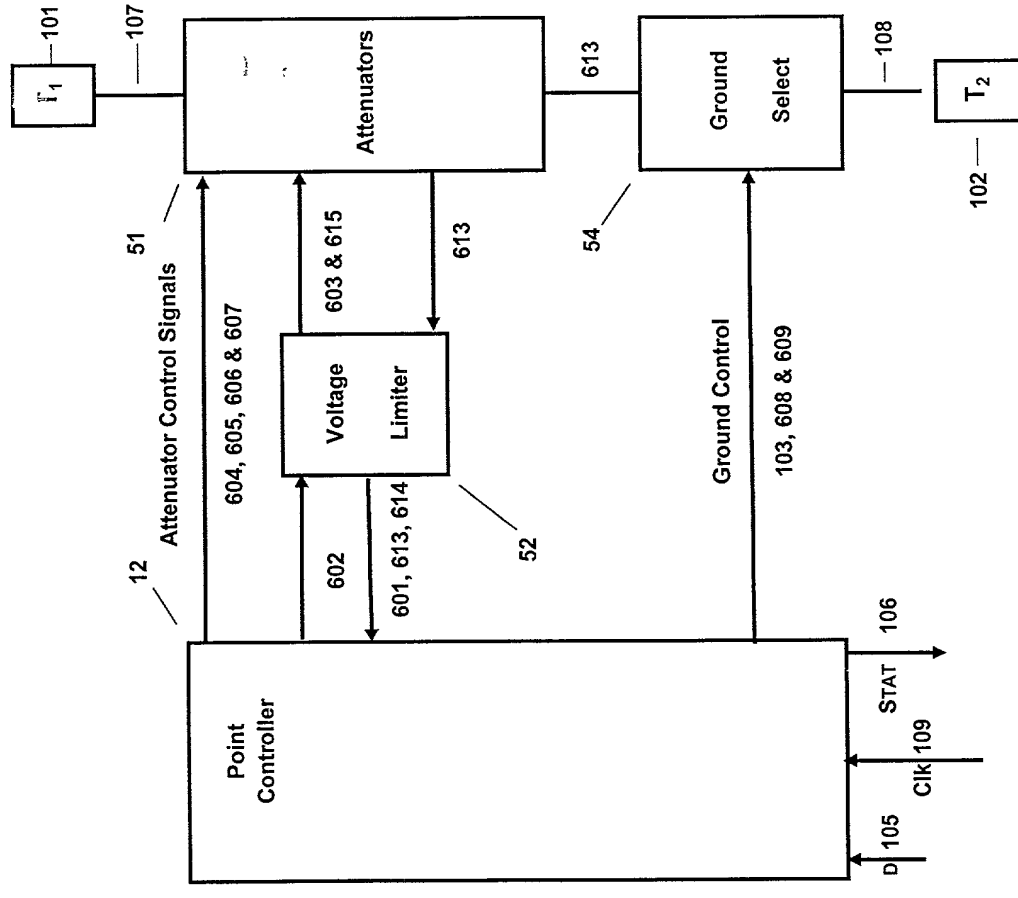


Figure 7 Mode 6: Analog Voltage Input

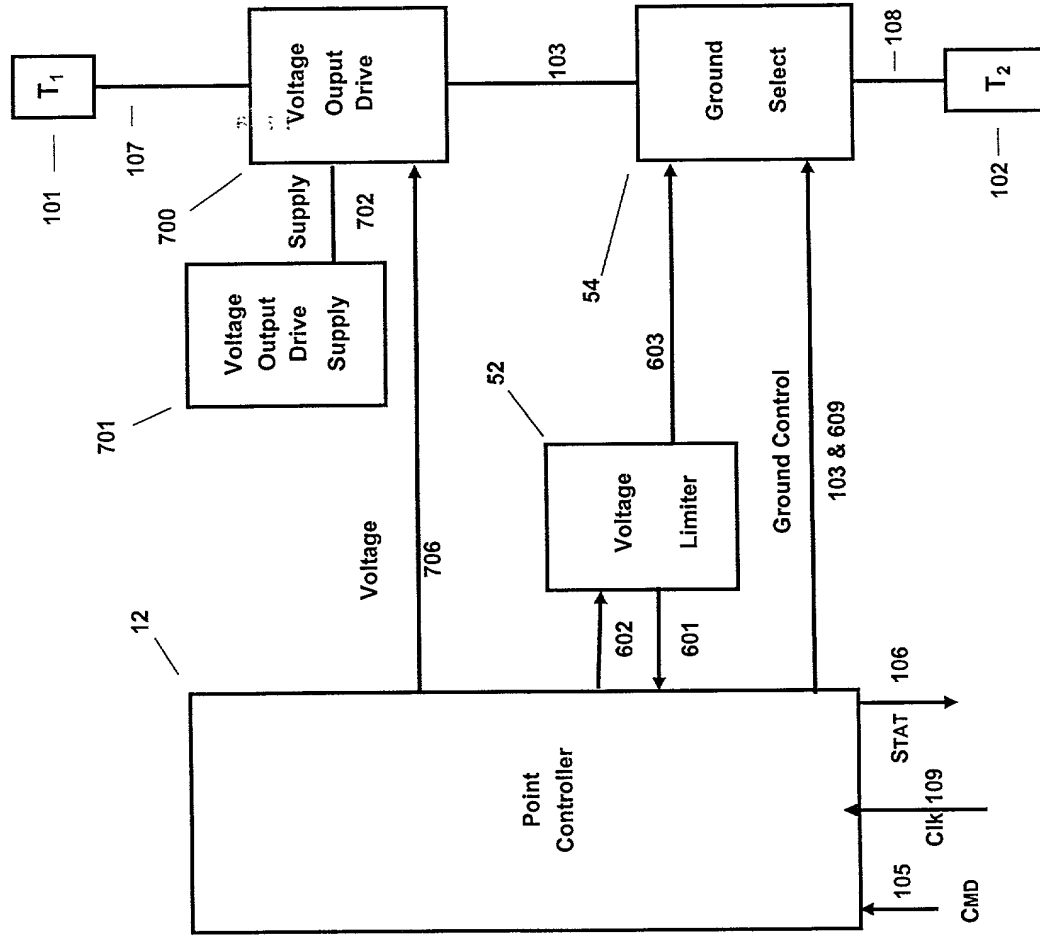
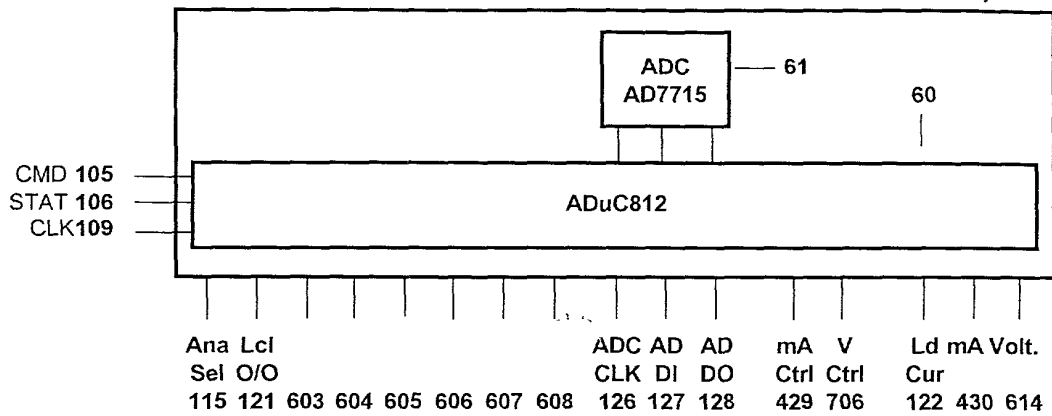


Figure 8 Mode 7: Analog Voltage Output

Figure 9 Point-Controller

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Mode REF # I/O		Control Lines											DACs		ADCs		
		115	121	603	604	605	606	607	608	126	127	128	429	706	122	430	614
1	I D ON/OFF	H	T	L	L	L	L	L	L	T	T	T	T	T	-	-	-
2	O D ON/OFF	H	T	L	L	L	L	L	L	T	T	T	T	T	-	-	-
3	O D,A Amps	L	H/L	L	L	L	L	L	L	T	T	T	T	T	Amps	-	-
4	I A mAmp	L	L	L	L	L	L	L	L	T	T	T	5	T	-	mA	-
5	O A mAmp	L	L	L	L	L	L	L	L	T	T	T	0-2.5	T	-	mA	-
6 a	I A Volts LV dc	L	L	L	L	H	L	H	L	CLK	DI	DO	T	T	-	-	V
6 b	I A Volts HV dc	L	L	L	H	L	H	H	L	CLK	DI	DO	T	T	-	-	V
6 c	I A Volts HV ac	L	L	H	L	L	H	H	H	CLK	DI	DO	T	T	-	-	V
7	O A Volts	L	L	L	L	H	L	H	H	CLK	DI	DO	T	0-2.5	-	-	V

L = low H = High T = Tri-state

Figure 10 Mode Control Table



**Figure 11 Mode 1 Digital (ON/OFF) Inputs**

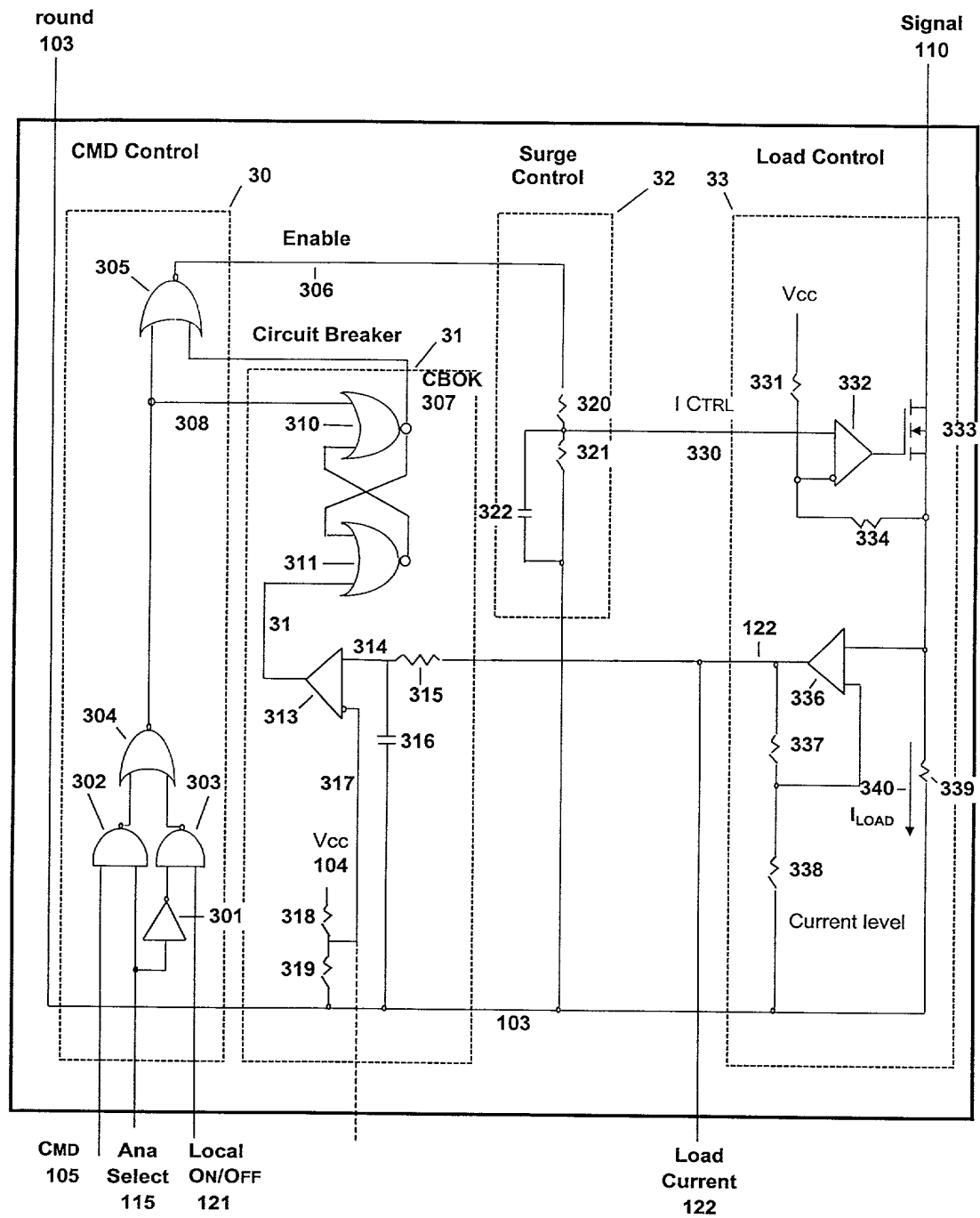


Figure 12 Mode2: Digital (ON/OFF) Output; Mode 3: Load Current

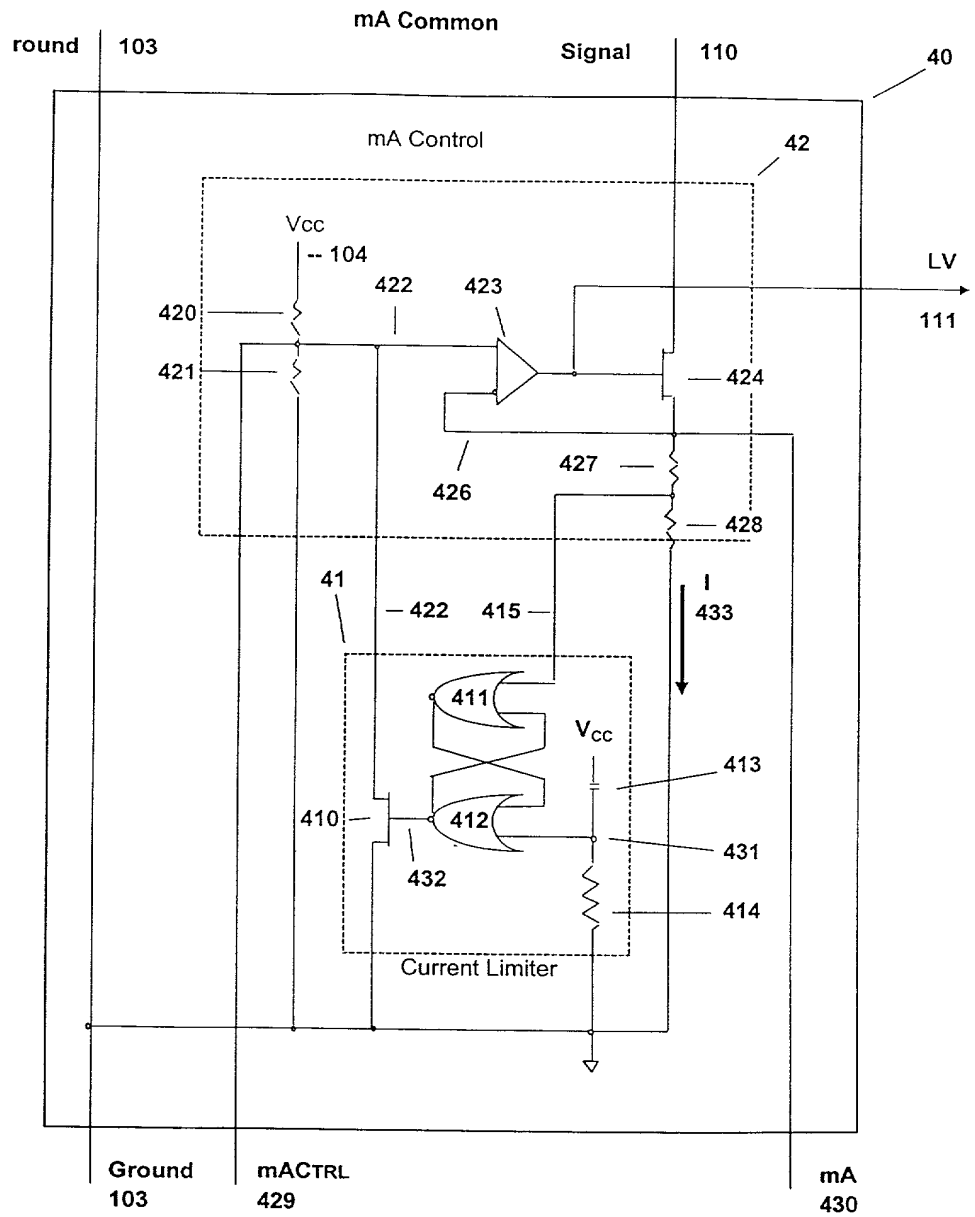


Figure 13 Modes 4 & 5: mA Common

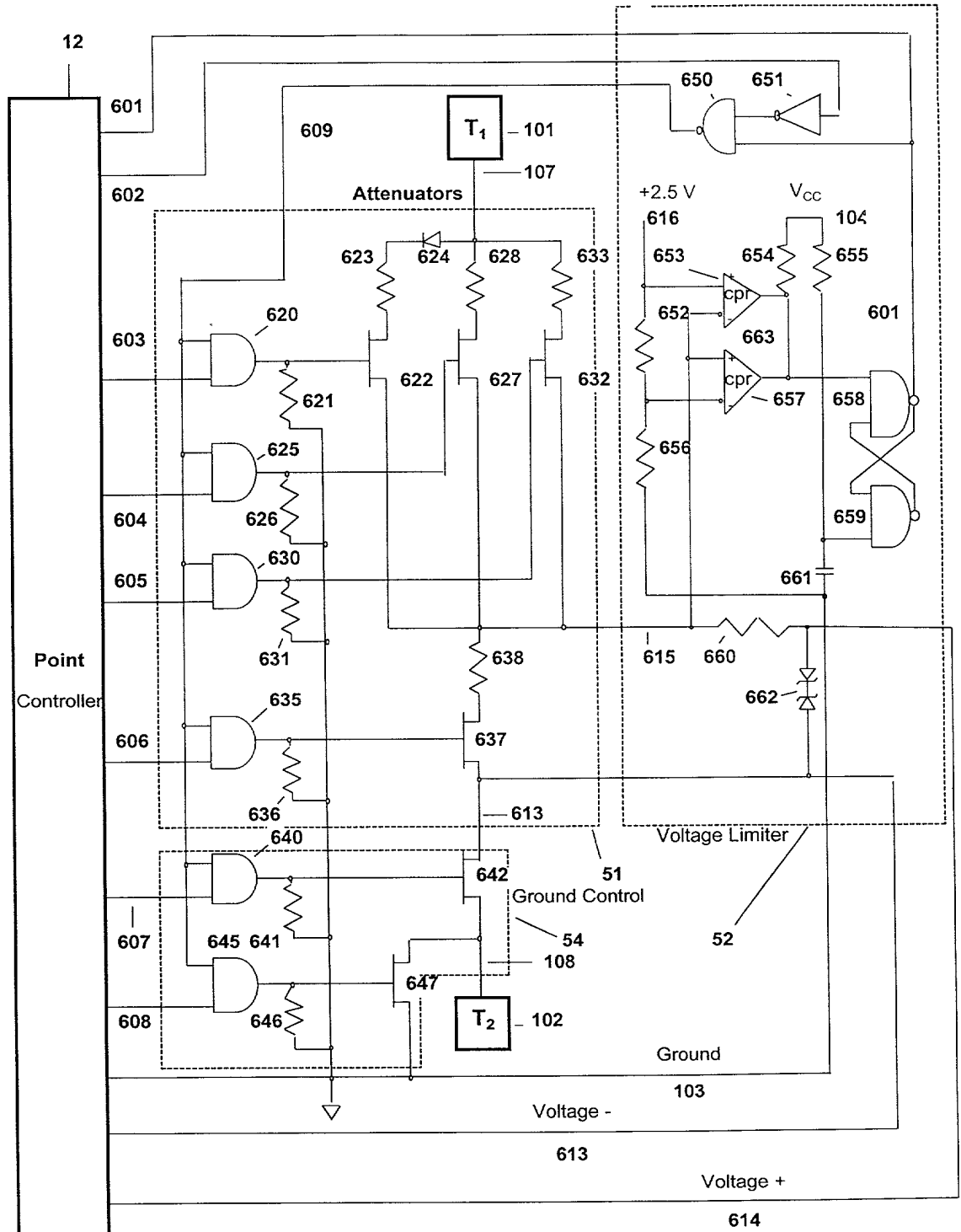


Figure 14 Mode 6: Analog Voltage In

[illegible]

**Figure {15} Mode 7: Analog Voltage Output**

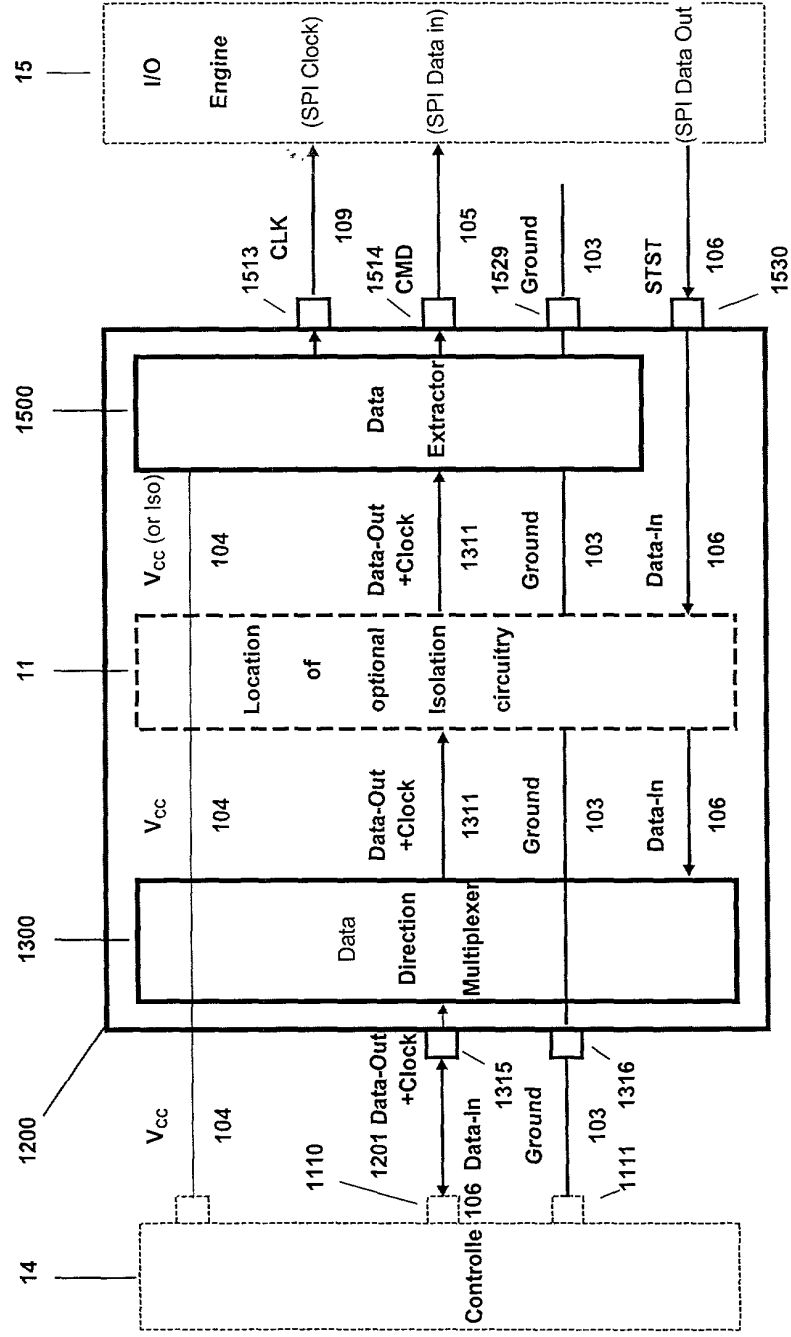


Figure 16 Monoline Serial Interface (SPI)